

## Title (en)

Turbo-engine, particularly internal combustion engine

## Title (de)

Turbomotor, insbesondere Verbrennungsmotor

## Title (fr)

Turbomoteur, en particulier moteur à combustion interne

## Publication

**EP 2522808 A1 20121114 (EN)**

## Application

**EP 11170776 A 20110621**

## Priority

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- EP 11170776 A 20110621

## Abstract (en)

The invention is directed to a turbo-engine, particularly internal combustion engine, comprising a housing and therein a bladeless turbine section (30; 42; 67) of the stacked disc- or Tesla-type construction, wherein the turbine section (30; 42; 67) has a plurality of closely spaced discs (32; 49; 61) arranged for common rotation about a rotation axis in the housing, said turbine section (30; 42; 67) is adapted for passing with tangential flow components a working fluid stream from a radially inner region to a radially outer region of said turbine section (30; 42; 67) while adopting energy from said working fluid stream for rotating the discs (30; 49; 61). Preferably, the turbo-engine further comprises a compressor section (40; 66) of the stacked disc- or Tesla-type construction having a plurality of closely spaced discs (45; 61) arranged for common rotation about said rotation axis and a combustion zone (41; 64), wherein said compressor section (40; 66) being arranged coaxially with- and radially inwardly of the turbine section (30; 42; 67) with the combustion zone (41; 64) provided radially between the compressor section and the turbine section.

## IPC 8 full level

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## DOCDB simple family (application)

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